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## IN THE CLAIMS:

Set forth below in ascending order, with status identifiers, is a complete listing of all claims currently under examination. Changes to any amended claims are indicated by strikethrough and underlining. This listing also reflects any cancellation and/or addition of claims

- 1-21 (cancelled).
- 22. (previously presented) A graphics system, comprising:
  - a graphics processing unit (GPU), comprising:
    - a graphics pipeline; and

an overclocking control module disposed in said GPU configured to evaluate overclocking parameters in response to a function call received by the GPU, the overclocking control module including:

a clock controller to control a GPU clock signal generator and a memory clock generator; and

a graphics pipeline stress tester to implement a stress test that includes executing a graphics test sequence in said graphics pipeline for selected overclocking parameters and monitoring errors of said graphics pipeline.

- (cancelled).
- 24. (currently amended) The graphics system of claim 22, wherein said graphics system includes computer executable instructions for running a control panel program having an overclocking control module for selecting and evaluating for selecting overclocking parameters and wherein a driver program initiates function calls to said GPU to evaluate overclocking parameters.

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- (Original) The graphics system of claim 22, wherein said graphics system determines a maximum safe GPU clock rate.
- (Original) The graphics system of claim 22, wherein said graphics system determines a
  maximum safe memory clock rate of a graphics memory associated with said GPU.
- (Original) The graphics system of claim 22, wherein said graphics system determines a
  maximum safe GPU clock rate and a maximum safe memory clock rate of a graphics memory
  associated with said GPU.
- 28-32. (cancelled).
- (currently amended) The graphics system of claim 22, further comprising:
   a central processing unit coupled to said GPU; and

a driver program to initiate function calls to said GPU, the driver program identifying sets of overclocking parameters to be evaluated by said GPU from a set of supported overclocking parameters pre-selected for said graphics system that includes a set of graphics processor core clock rates and memory clock rates having an initial starting point and a maximum end point associated with a graphics processor and a graphics memory, the GPU for each set of overclocking parameters automatically applying the stress test with the graphics system and determining a safe set of overclocking parameters within a set of supported overclocking parameters passing said stress test.

- 34. (previously presented) The graphics system of claim 33, wherein each of supported overclocking parameters includes a fan speed and a fan speed is automatically selected for said safe set of overclocking parameters.
- 35. (currently amended) The graphics system of claim 33, wherein said set of supported overclocking parameters includes chip voltages, memory timings, and fan speeds and said

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forming said sets of overclocking parameters further comprises: adjusting at least one clock rate to form at least one new clock rate; and setting a chip voltage, memory timing, and a fan speed for each said at least one new clock rate.

- 36. (New) The graphic system of claim 33, wherein said set of supported overclocking parameters is stored in an internal table.
- 37. (New) A graphics system, comprising:
  - a graphics processing unit (GPU), comprising:
    - a graphics pipeline; and
  - an overclocking control module disposed in said GPU configured to evaluate overclocking parameters in response to a function call received by the GPU, the overclocking control module implemented at least in part as hardware and including:
  - a clock controller to control a GPU clock signal generator and a memory clock generator; and
  - a graphics pipeline stress tester to implement a stress test that includes executing a graphics test sequence in said graphics pipeline for selected overclocking parameters and monitoring errors of said graphics pipeline; and
  - a central processing unit coupled to said GPU;
- wherein the graphics system includes computer executable instructions for running a control panel program for selecting overclocking parameters and wherein a driver program initiates function calls to said GPU to evaluate overclocking parameters.
- 38. (New) The graphic system of claim 37, wherein the driver program identifies sets of overclocking parameters to be evaluated by said GPU from a set of supported overclocking parameters pre-selected for said graphics system that includes a set of graphics processor core clock rates and memory clock rates having an initial starting point and a maximum end point associated with a graphics processor and a graphics memory, the GPU for each set of overclocking parameters automatically applying the stress test with the graphics system and

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determining a safe set of overclocking parameters within a set of supported overclocking parameters passing said stress test.

- 39. (New) The graphics system of claim 38, wherein each of the supported overclocking parameters includes a fan speed and a fan speed is automatically selected for said safe set of overclocking parameters.
- 40. (New) The graphics system of claim 38, wherein said set of supported overclocking parameters includes chip voltages, memory timings, and fan speeds and forming said sets of overclocking parameters further comprises: adjusting at least one clock rate to form at least one new clock rate; and setting a chip voltage, memory timing, and a fan speed for each said at least one new clock rate.
- 41. (New) The graphic system of claim 38, wherein said set of supported overclocking parameters is stored in an internal table.
- (New) The graphics system of claim 37, wherein said overclocking control module comprises a combination of hardware and software.
- 43. (New) A graphics system, comprising:
  - a graphics processing unit (GPU), comprising:
    - a graphics pipeline; and
  - an overclocking control module comprising a combination of hardware and software disposed in said GPU configured to evaluate overclocking parameters in response to a function call received by the GPU, the overclocking control module including:
  - a clock controller to control a GPU clock signal generator and a memory clock generator; and

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a graphics pipeline stress tester to implement a stress test that includes executing a graphics test sequence in said graphics pipeline for selected overclocking parameters and monitoring errors of said graphics pipeline.

- 44. (New). The graphics system of claim 43, wherein the graphics system includes computer executable instructions for running a control panel program for selecting overclocking parameters and wherein a driver program initiates function calls to said GPU to evaluate overclocking parameters.
- 45. (New) The graphic system of claim 43, further comprising a driver program to identify sets of overclocking parameters to be evaluated by said GPU from a set of supported overclocking parameters pre-selected for said graphics system that includes a set of graphics processor core clock rates and memory clock rates having an initial starting point and a maximum end point associated with a graphics processor and a graphics memory, the GPU for each set of overclocking parameters automatically applying the stress test with the graphics system and determining a safe set of overclocking parameters within a set of supported overclocking parameters passing said stress test.